10

15

20

## CLAIMS

WHAT IS CLAIMED IS:

1. A method comprising:

aligning a drilling device at a first intersection of a first scribe line and a second scribe line coupled to a first surface of a substrate; and

drilling through said substrate at said first intersection with said drilling device from said first surface to a second surface of said substrate to form an alignment mark.

- 2. The method of Claim 1 further comprising coupling a wafer support to said first surface of said substrate.
- 3. The method of Claim 2 further comprising optically recognizing said first intersection through said wafer support.
- 4. The method of Claim 2 wherein said wafer support is sufficiently transparent to allow said first intersection to be optically recognized through said wafer support.
- 5. The method of Claim 2 further comprising protecting said first surface of said substrate with said wafer support.
- 6. The method of Claim 5 wherein said drilling 30 generate contaminants, said wafer support protecting said first surface of said substrate from said contaminants.
- 7. The method of Claim 1 further comprising aligning a saw with said first scribe line using said alignment mark.

15

- 8. The method of Claim 7 further comprising shining light of an angle to said second surface of said substrate to enhance recognition of said alignment mark.
- 9. The method of Claim 7 wherein said saw is selected from the group consisting of a mechanical saw, a laser saw, and a high-pressure water saw.
- 10. The method of Claim 7 further comprising cutting said substrate from said second surface with said saw.
  - 11. The method of Claim 10 wherein said substrate is cut along said first scribe line.
  - 12. The method of Claim 10 wherein said cutting singulates electronic components of said substrate.
  - 13. The method of Claim 12 wherein said electronic components are selected from the group consisting of integrated circuits, micromachine chips, and image sensor chips.
    - 14. A method comprising:

coupling a front-side surface of a wafer to an interior surface of a wafer support;

optically recognizing a scribe grid coupled to said front-side surface of said wafer through said wafer support;

aligning a drilling device directly to said scribe grid; and

drilling through said wafer with said drilling device from said front-side surface to a back-side surface of said wafer to form a back-side alignment mark.

15. The method of Claim 14 further comprising protecting said front-side surface of said wafer with said wafer support during said drilling.

35

16. The method of Claim 14 further comprising aligning a saw with said scribe grid using said alignment mark.

5

15

20

25

- 17. The method of Claim 16 further comprising cutting said wafer from said back-side surface with said saw.
- 18. The method of Claim 17 further comprising protecting said front-side surface of said wafer with said wafer support during said cutting.
  - 19. The method of Claim 18 further comprising washing said wafer to remove contaminants generated during said cutting.

## 20. A method comprising:

coupling a front-side surface of a wafer to a wafer support, a first scribe line and a second scribe line being coupled to said front-side surface;

optically recognizing an intersection of said first scribe line and said second scribe line through said wafer support;

aligning a drilling device at said intersection; and drilling through said wafer support and through said wafer at said intersection with said drilling device to form an alignment mark on a back-side surface of said wafer.

30

35

## 21. A method comprising:

coupling a front-side surface of a wafer to a wafer support, a first scribe line and a second scribe line being coupled to said front-side surface;

optically recognizing an intersection of said first scribe line and said second scribe line through said wafer support;

aligning a drilling device at said intersection;

10

drilling through said wafer from said front-side surface to a back-side surface of said wafer at said intersection with said drilling device to form an alignment mark on said back-side surface of said wafer;

aligning a saw with said first scribe line using said alignment mark; and

cutting said wafer from said back-side surface with said saw along said first scribe line, wherein said wafer support protects said front-side surface during said cutting.